



AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1 1. (Currently amended) A system for enabling one or more arbitrary components to communicate with each other, the system comprising:
 - 4 a first component associated with one or more universal interfaces,
5 wherein the one or more universal interfaces comprise executable code and
6 data; and
 - 7 a second component obtaining one of the one or more universal interfaces associated with the first component and automatically invoking the at least one of the universal interfaces to communicate with the first component.
- 1 2. (Original) The system as set forth in claim 1 wherein the first component transfers a data object to the second component, the data object having the one or more universal interfaces.
- 1 3. (Original) The system as set forth in claim 1 wherein the first component transfers a data object to the second component, the data object having instructions and data for accessing the one or more universal interfaces.
- 1 4. (Original) The system as set forth in claim 1 wherein the second component has instructions and data for accessing a data object, the data object having the one or more universal interfaces.

1 5. (Original) The system as set forth in claim 1 wherein the second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for accessing a data object
4 having the one or more universal interfaces.

1 6. (Original) The system as set forth in claim 1 wherein the second
2 component has instructions and data for using the one or more universal
3 interfaces.

1 7. (Original) The system as set forth in claim 1 wherein a third
2 component transfers a data object to the second component, the data object
3 having the one or more universal interfaces associated with the first
4 component.

1 8. (Original) The system as set forth in claim 1 wherein the one or more
2 universal interfaces comprise a data source interface, a data sink interface, an
3 aggregation interface, a mutable aggregation interface, a context interface, a
4 notification interface or a user interface.

1 9. (Original) The system as set forth in claim 1 wherein the one or more
2 universal interfaces comprise object-oriented mobile code having instructions
3 for obtaining, interpreting, viewing or modifying data associated with one or
4 more collections of components, providing one or more user interfaces to allow
5 one or more components to be accessed or manipulated, allowing one or more
6 components to provide event notifications or retrieving contextual data
7 associated with the second component.

1 10. (Original) The system as set forth in claim 1 wherein one of the one

2 or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 11. (Original) The system as set forth in claim 1 wherein the one or more
2 arbitrary components comprise a computer system, device, network service,
3 application, data, memory, file directory or individual file.

1 12. (Currently amended) A method for enabling one or more
2 arbitrary components to communicate with each other, the method
3 comprising:

4 obtaining one of one or more universal interfaces associated with a
5 first component, wherein the one or more universal interfaces comprise
6 executable code and data; and
7 automatically invoking at least one of the universal interfaces to
8 communicate with the first component.

1 13. (Original) The method as set forth in claim 12 further comprising
2 transferring a data object to a second component, the data object having the one
3 or more universal interfaces.

1 14. (Original) The method as set forth in claim 12 further comprising
2 transferring a data object to a second component, the data object having
3 instructions and data for enabling the second component to use the one or more
4 universal interfaces.

1 15. (Original) The method as set forth in claim 12 further comprising
2 transferring a data object to a second component, the second component having

3 instructions and data for enabling it to use the one or more universal interfaces.

1 16. (Original) The method as set forth in claim 12 wherein a second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for enabling the second
4 component to use the one or more universal interfaces.

1 17. (Original) The method as set forth in claim 12 wherein a second
2 component performs instructions for using the one or more universal interfaces.

1 18. (Original) The method as set forth in claim 12 wherein a third
2 component transfers a data object to a second component, the data object having
3 the one or more universal interfaces associated with the first component.

1 19. (Original) The method as set forth in claim 12 wherein the one or
2 more universal interfaces comprise a data source interface, a data sink interface,
3 an aggregation interface, a mutable aggregation interface, a context interface, a
4 notification interface or a user interface.

1 20. (Original) The method as set forth in claim 12 wherein the one or
2 more universal interfaces comprise object-oriented mobile code having
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing
4 or modifying data associated with a collection of components, providing an
5 interface to allow requested components to be accessed or manipulated directly,
6 allowing requested components to provide the one or more other components
7 with status updates of the requested components or retrieving contextual data
8 associated with the second component.

1 21. (Original) The method as set forth in claim 12 wherein one of the
2 one or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 22. (Original) The method as set forth in claim 12 wherein the one or
2 more arbitrary components comprise a device, network service, application,
3 data, memory, file directory or individual file.

1 23. (Currently amended) A computer readable medium having stored
2 thereon instructions for enabling one or more arbitrary components to
3 communicate with each other, which when executed by one or more processors,
4 causes the processors to perform:

5 obtaining one of one or more universal interfaces associated with a
6 first component, wherein the one or more universal interfaces comprise
7 executable code and data; and

8 automatically invoking at least one of the universal interface to
9 communicate with the first component.

1 24. (Original) The medium as set forth in claim 23 further comprising
2 transferring a data object to a second component, the data object having the one
3 or more universal interfaces.

1 25. (Original) The medium as set forth in claim 23 further comprising
2 transferring a data object to a second component, the data object having
3 instructions and data for enabling the second component to use the one or more
4 universal interfaces.

1 26. (Original) The medium as set forth in claim 23 further comprising
2 transferring a data object to a second component, the second component having
3 instructions and data for enabling it to use the one or more universal interfaces.

1 27. (Original) The medium as set forth in claim 23 wherein a second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for enabling the second
4 component to use the one or more universal interfaces.

1 28. (Original) The medium as set forth in claim 23 wherein a second
2 component performs instructions for using the one or more universal interfaces.

1 29. (Original) The medium as set forth in claim 23 wherein a third
2 component transfers a data object to a second component, the data object having
3 the one or more universal interfaces associated with the first component.

1 30. (Original) The medium as set forth in claim 23 wherein the one or
2 more universal interfaces comprise a data source interface, a data sink interface,
3 an aggregation interface, a mutable aggregation interface, a context interface, a
4 notification interface or a user interface.

1 31. (Original) The medium as set forth in claim 23 wherein the one or
2 more universal interfaces comprise object-oriented mobile code having
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing
4 or modifying data associated with a collection of components, providing an
5 interface to allow requested components to be accessed or manipulated directly,
6 allowing requested components to provide the one or more other components
7 with status updates of the requested components or retrieving contextual data

8 associated with the second component.

1 32. (Original) The medium as set forth in claim 23 wherein one of the
2 one or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 33. (Original) The medium as set forth in claim 23 wherein the one or
2 more arbitrary components comprise a device, network service, application,
3 data, memory, file directory or individual file.

1 34. (Currently amended) A computer data signal embodied in a carrier
2 wave for enabling one or more arbitrary components to communicate with each
3 other, the signal comprising:

4 a first source code segment having instructions for causing a first
5 component to obtain one of one or more universal interfaces associated with a
6 second component, wherein the one or more universal interfaces comprise
7 executable code and data; and

8 a second source code segment having instructions for causing the first
9 component to automatically invoke at least one of the universal interfaces to
10 communicate with the second component.

1 35. (Original) The signal as set forth in claim 34 further comprising
2 transferring a data object to a second component, the data object having the one
3 or more universal interfaces.

1 36. (Original) The signal as set forth in claim 34 further comprising
2 transferring a data object to a second component, the data object having

3 instructions and data for enabling the second component to use the one or more
4 universal interfaces.

1 37. (Original) The signal as set forth in claim 34 further comprising
2 transferring a data object to a second component, the second component having
3 instructions and data for enabling it to use the one or more universal interfaces.

1 38. (Original) The signal as set forth in claim 34 wherein a second
2 component interacts with an operating system environment, the operating
3 system environment having instructions and data for enabling the second
4 component to use the one or more universal interfaces.

1 39. (Original) The signal as set forth in claim 34 wherein a second
2 component performs instructions for using the one or more universal interfaces.

1 40. (Original) The signal as set forth in claim 34 wherein a third
2 component transfers a data object to a second component, the data object
3 having the one or more universal interfaces associated with the first
4 component.

1 41. (Original) The signal as set forth in claim 34 wherein the one or
2 more universal interfaces comprise a data source interface, a data sink interface,
3 an aggregation interface, a mutable aggregation interface, a context interface, a
4 notification interface or a user interface.

1 42. (Original) The signal as set forth in claim 34 wherein the one or
2 more universal interfaces comprise object-oriented mobile code having
3 instructions for obtaining, interpreting, viewing or modifying obtaining, viewing

4 or modifying data associated with a collection of components, providing an
5 interface to allow requested components to be accessed or manipulated directly,
6 allowing requested components to provide the one or more other components
7 with status updates of the requested components or retrieving contextual data
8 associated with the second component.

1 43. (Original) The signal as set forth in claim 34 wherein one of the one
2 or more universal interfaces comprise a source-specific data transfer session
3 having instructions for converting data transferred through the source-specific
4 data transfer session.

1 44. (Original) The signal as set forth in claim 34 wherein the one or
2 more arbitrary components comprise a device, network service, application,
3 data, memory, file directory or individual file.